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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/524,465	02/15/2005	Akiyoshi Fujii	1248-0769PUS1	4838
2292 7590 01/30/2007 BIRCH STEWART KOLASCH & BIRCH			EXAMINER	
PO BOX 747		1	1248-0769PUSI 4838 EXAMINER DOLAN, JENNIFER M	
FALLS CHURG	CH, VA 22040-0747			PAPER NUMBER
			2813	
SHORTENED STATUTORY	V DEDIOD OF BESDONSE	NOTIFICATION DATE	DELIVER	Y MODE
31 D.	AYS	01/30/2007	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Notice of this Office communication was sent electronically on the above-indicated "Notification Date" and has a shortened statutory period for reply of 31 DAYS from 01/30/2007.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

	Application No.	Applicant(s)					
Office Assistant Commence	10/524,465	FUJII ET AL.					
Office Action Summary	Examiner	Art Unit					
	Jennifer M. Dolan	2813					
The MAILING DATE of this communication of the Period for Reply	nication appears on the cover shee	t with the correspondence address	-				
A SHORTENED STATUTORY PERIOD IN WHICHEVER IS LONGER, FROM THE IN Extensions of time may be available under the provision after SIX (6) MONTHS from the mailing date of this come. If NO period for reply is specified above, the maximum serial reply received by the Office later than three months earned patent term adjustment. See 37 CFR 1.704(b).	MAILING DATE OF THIS COMMUS s of 37 CFR 1.136(a). In no event, however, mamunication. Itatutory period will apply and will expire SIX (6) by will, by statute, cause the application to become	UNICATION. By a reply be timely filed MONTHS from the mailing date of this communic BY ABANDONED (35 U.S.C. § 133).					
Status	·		·				
1) Responsive to communication(s) fil	ed on	·					
2a)☐ This action is FINAL .	2b) ☐ This action is non-final.	·					
<u>′</u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the pract	•	·					
Disposition of Claims							
4) Claim(s) 1-29 is/are pending in the	application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6) Claim(s) is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) <u>1-29</u> are subject to restrict	ion and/or election requirement.						
Application Papers							
9)☐ The specification is objected to by the	ne Examiner.		,				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including	g the correction is required if the draw	ring(s) is objected to. See 37 CFR 1.1:	21(d).				
11)☐ The oath or declaration is objected t	to by the Examiner. Note the attac	hed Office Action or form PTO-15	2.				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
<u> </u>							
2. Certified copies of the priority	_						
3. Copies of the certified copies	of the priority documents have be	een received in this National Stage	,				
application from the Internation	onal Bureau (PCT Rule 17.2(a)).	•	•				
* See the attached detailed Office action	on for a list of the certified copies i	not received.					
Attachment(s)							
1) Notice of References Cited (PTO-892)		ew Summary (PTO-413)					
 Notice of Draftsperson's Patent Drawing Review (Information Disclosure Statement(s) (PTO/SB/08) 		No(s)/Mail Date of Informal Patent Application					
Paper No(s)/Mail Date 6) Other:							

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DETAILED ACTION

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claims 1-9 and 12, drawn to a thin film transistor having source or drain electrodes with a branch section having branching-off parts.

Group II, claims 10 and 13, drawn to a thin film transistor including a source transition part and a drain transition part that widen from the source/drain wire toward the forming area of the semiconductor layer.

Group III, claims 11 and 14, drawn to a thin film transistor having a substantially circular semiconductor layer on a linear gate wire.

Group IV, claims 15-29, drawn to a method for forming a thin film transistor by applying a droplet of an electrode raw material in an electrode formation area.

2. The inventions listed as Groups I-IV do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The source or drain electrodes having a branch section in group I are not required for the inventions of groups II and III. Similarly, the claimed source transition parts of group II are not required for the inventions of groups I or III, and the circular semiconductor layer of group III is

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not required for groups I or II. Thus, groups I, II, and III are considered to define separate inventions having separate technical features that while usable together, need not be so.

Regarding group IV, it is noted that groups II and III do not require formation by use of a droplet of electrode raw material. In group I, although such a limitation is specified, the Examiner notes that "determination of patentability in 'product-by-process' claims is based on product itself, even though such claims are limited and defined by the process, such as forming the electrodes by applying a droplet of electrode raw material, and thus product in such claim is unpatentable if it is the same as, or obvious form, product of prior art, even if prior product was made by a different process", In re Thorpe, et al., 227 USPQ 964 (CAFC 1985). Furthermore, note that a "product-by-process claim, although reciting subject matter of claim in terms of how it is made is still product claim; it is patentability of product claimed and not recited process steps that must be established, in spite of fact that claim may recite only process limitations", In re Hirao and Sato, 190 USPQ 685 (CCPA 1976). The group I claims, drawn to a product, are not considered to require application of a droplet of electrode raw material, but rather to simply use an electrode material for which liquid application is possible. Thus, the method of applying a droplet of electrode raw material in group IV is considered a distinct invention having distinct technical features from the inventions of groups I-III, wherein the inventions may be usable together, but need not be so.

3. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer M. Dolan whose telephone number is (571) 272-1690. The examiner can normally be reached on Monday-Friday 8:30am-5:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl W. Whitehead, Jr. can be reached on (571) 272-1702. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jennifer M. Dolan Examiner Art Unit 2813

jmd

CARL WHITEHEAD JR. UPERVISORY PATENT EXAMPLE